

# TRAVERSE CITY FOREST MANAGEMENT UNIT COMPARTMENT REVIEW PRESENTATION

# COMPARTMENT #140 ENTRY YEAR: 2013

Compartment Acreage: 1597 County: Kalkaska

## Stand Examiner: Donna Hagan

Legal Description: T25N, R5W, Sec. N1/2 of 13, 14 & 15

**Management Goals:** Keep and expand oak and aspen type. Produce medium to high site index oak for timber.

Soil and Topography: Roselawn, Rubicon & Grayling sands. Mostly flat to gently rolling.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** The compartment is all state land and hunting is the primary land use.

Unique, Natural Features (include only non-site specific and non-sensitive information): Whorled pogonia and Hill's thistle are in this compartment.

Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information): There is an archeological concern in section 15.

**Special Management Designations or Considerations:** All of the compartment is in the 10 year military lease area for training purposes.

Watershed and Fisheries Considerations: No water in this compartment.

## Wildlife Habitat Considerations:

**Mineral Resource and Development Concerns and/or Restrictions:** Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 400 and 600 feet. Beneath the glacial drift is the Mississippian Michigan Formation. The Michigan Formation is quarried for gypsum. The nearest gravel pit is just to the north of the compartment. Gravel potential in the compartment is considered good, especially the upland area. Beaver Creek Field is located in Section 13. The field has produced over 16 MBO and 21 Bcf gas from the Devonian Richfield Formation and over 5 Bcf gas from the PdC Formation. The State land in the area of the field is currently leased. A new zone, Detroit River, is in the process of unitization. Most of the area is already part of the Richfield unitized area and some additional acreage to the east in Crawford County.

Vehicle Access: Gravel and two-track county roads surrounds each section in the compartment.

Survey Needs: None needed.

Recreational Facilities and Opportunities: No recreational facilities are in this compartment.

Compt 140.doc

04/28/2011

**Fire Protection:** Fire coverage for this area is assigned to the MDNR Kalkaska Field Office with assistance available from the local township Volunteer Fire Departments. DNR wildfire equpiment is also available from the Roscommon DNR and Grayling DNR offices. Lack of nearby water for use as a fire suppression source is a concern. Road access is limited in some areas in this compartment. (Comments by Rod Rader, Fire Supervisor, Traverse City Field Office.)

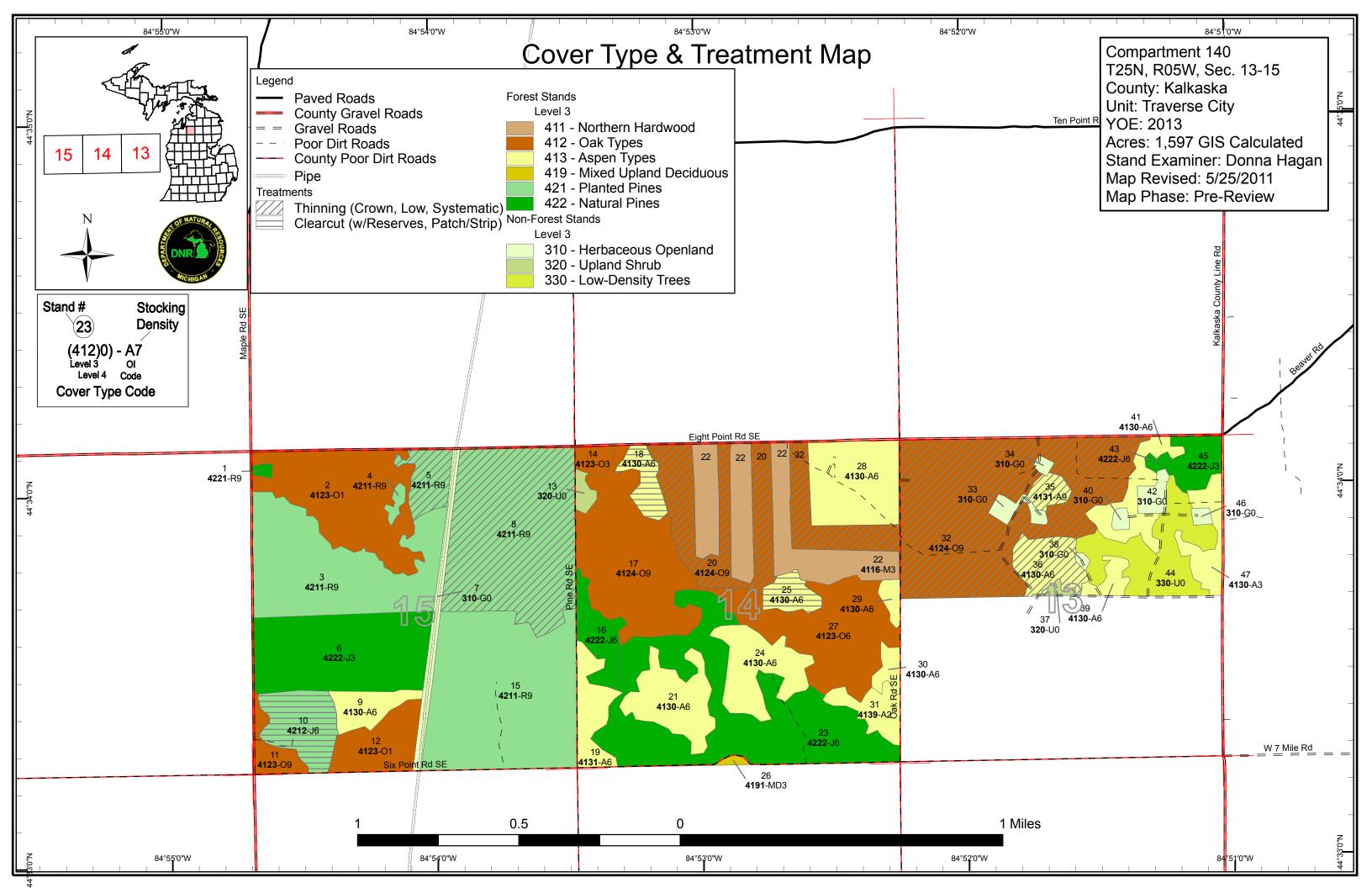
# **Additional Compartment Information:**

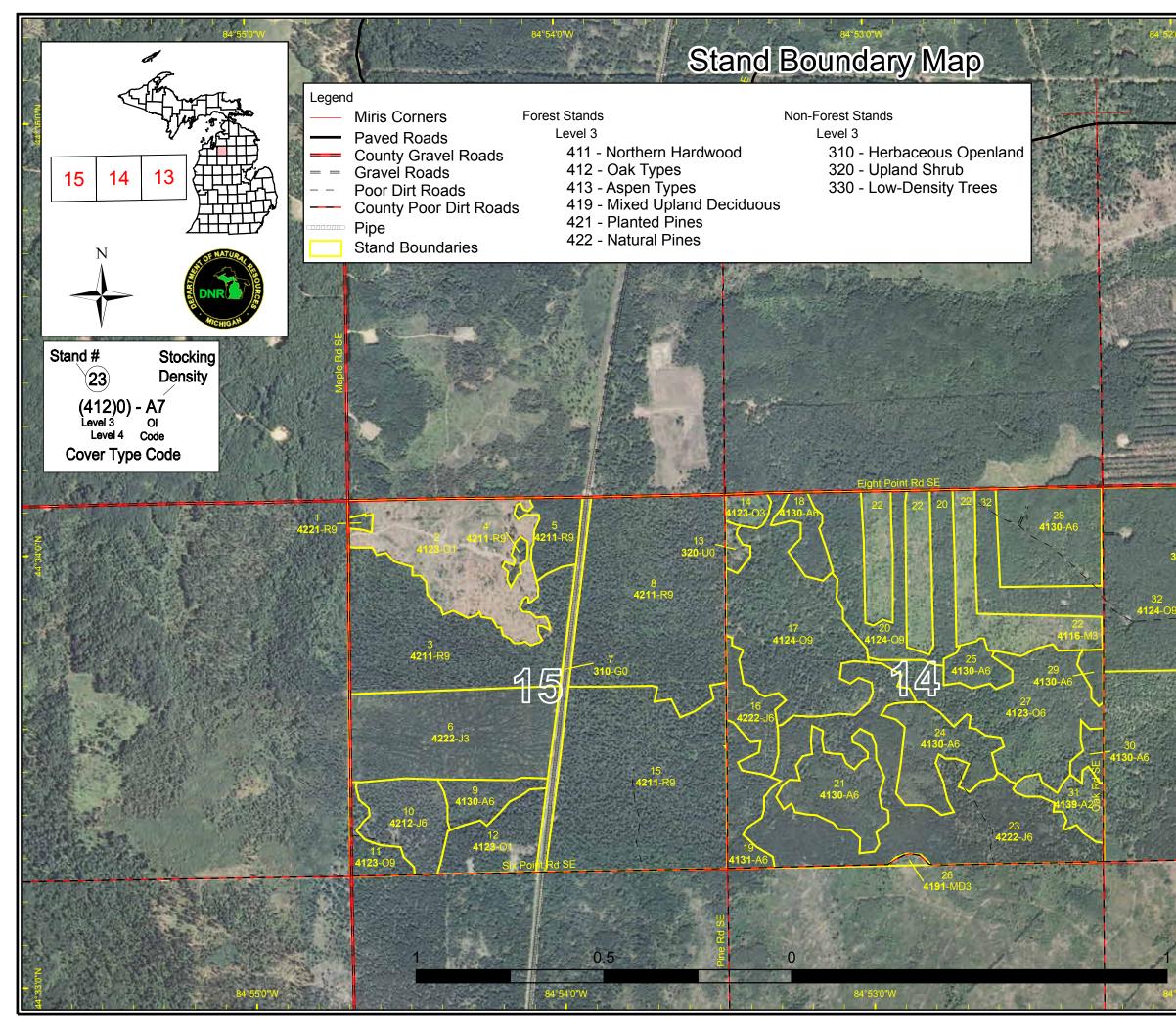
\*\*\*\* Cover type details, proposed treatments and stands designated as FDF are listed in the attached reports:

Cover Type by Age Class Cover Type by Management Objective Compartment Volume Summary Proposed Treatments – No Limiting Factors Proposed Treatments – With Limiting Factors

\*\*\*\* The following information is displayed on the attached compartment maps:

Base feature information, stand numbers, cover types Proposed treatments Proposed road access system Suggested potential old growth

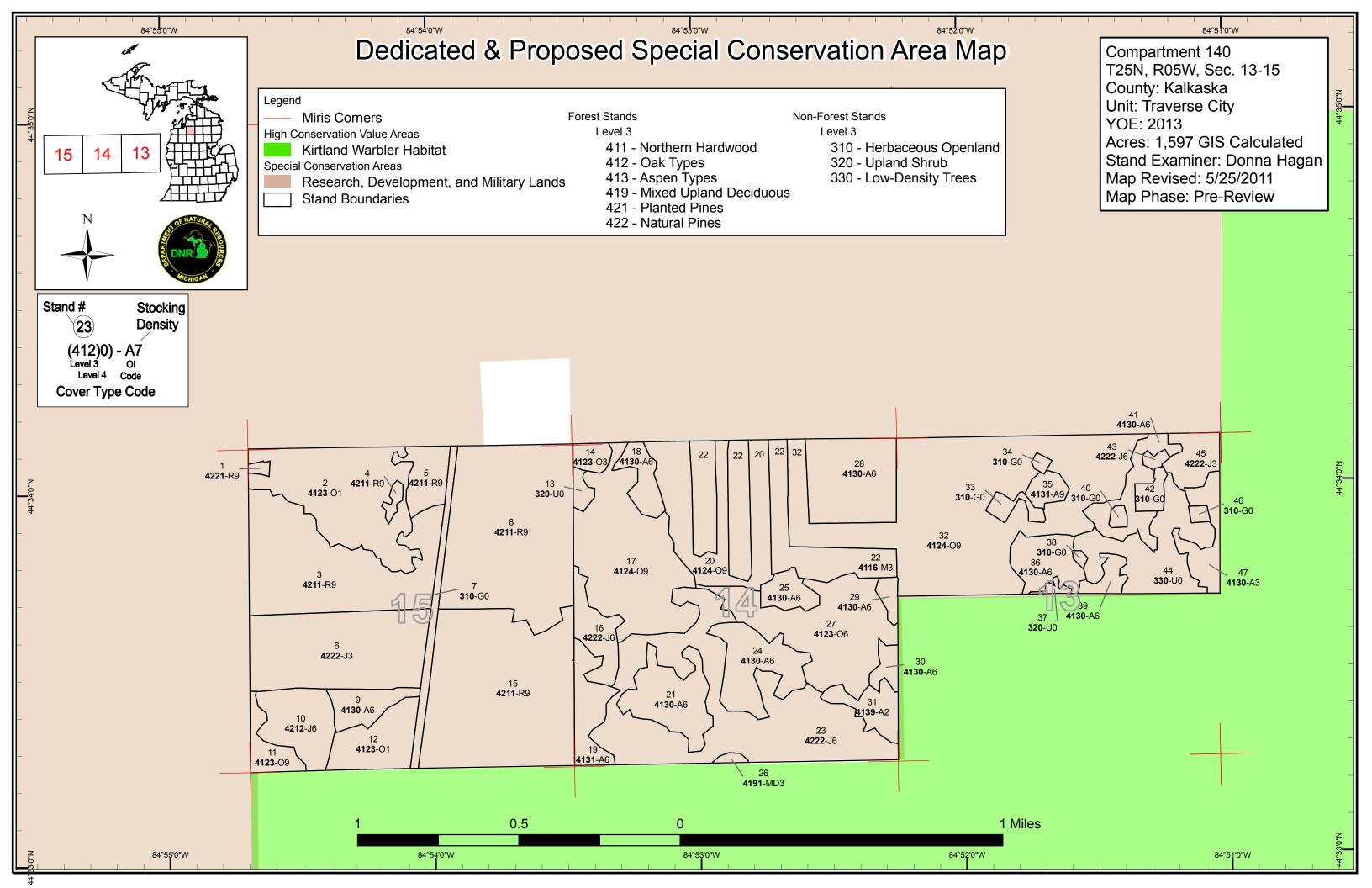




Compartment 140 T25N, R05W, Sec. 13-15 County: Kalkaska Unit: Traverse City YOE: 2013 Acres: 1,597 GIS Calculated Stand Examiner: Donna Hagan Map Revised: 5/25/2011 Map Phase: Pre-Review

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# Table 1 – Total Acres by Cover Type and Age Class

Traverse City Mgt. Unit Donna Hagan : Examiner

## Compartment 140 Year of Entry 2013



							Age	Class									
	Nor	And the second	°.	6 <sup>7</sup> 9	6 <sup>2</sup>	67. 19.	10-14 <sup>20</sup>	05:.05	00.00 10	101	69. 69. 69.	66'in	001.001 ·	0 <sup>11</sup> 0 <sup>11</sup> 0	120× 1310	A A A	leio.
Aspen	0	0	0	16	61	160	27	0	0	0	0	0	0	0	0	264	
Herbaceous Openland	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32	
Jack Pine	0	0	98	0	0	144	29	0	0	0	0	0	0	0	0	272	
Low-Density Trees	44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44	
Mixed Upland Deciduous	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2	
Northern Hardwood	0	70	0	0	0	0	0	0	0	0	0	0	0	0	0	70	
Oak	0	110	0	0	0	69	0	0	0	0	12	0	0	332	0	523	
Red Pine	0	0	0	0	0	0	0	0	385	0	0	0	0	0	0	385	]
Upland Shrub	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	]
Total	82	180	98	16	61	375	57	0	385	0	12	0	0	332	0	1597	]



MICHIGAN .	Traverse City Mgt. Unit Year of Entry 2013									Compartment Total Compartment Acres:	
			Ac	res by <sup>-</sup>	Freatm	ent Ty	ре				
	Commercial Harvest - 473	Site Prep - 0		Tree F	Planting	- 0		Preso	ribed Burn - 0	Other - 0	
	Habitat Cut - 0	Opening Maintenand	ce - 0	Tree S	Seeding	- 0		Pesti	cide - 0		
			C	over Ty	pe by H	larves	st Meth	od			
			Clear	Selection .	710000 55	od and a strange of the strange of t	in os	de la cit	See		
	Aspen	Í	22 0	0	0	27	0	50			
	Jack Pin	ie l	29 0	0	0	0	0	29			
	Oak		0 0	0	0	247	0	247			
	Red Pine	9	0 0	0	0	147	0	147			
		Total	52 0	0	0	421	0	473			

Traverse City Mgt. Unit

#### Table 3 - Treatments Prescribed with No Limiting Factor

Compartment: 140 Year of Entry 2013

NATURAL DALL
MICHIGAN
Approval

S t		inavoio	e City Mgt. Offic			imiting Fact	Year of Entry 2013	DNR DNR	
a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
5	61140005-Cut	16.0	42111 - Planted Red Pine, Mixed Deciduous	High Density Log	76	Harvest	Crown Thinning	42111 - Planted Red Pine, Mixed Deciduous	Cmpt. Review Proposal
<u>Pres</u> Spec	<u>cription</u> Thin dov <u>:s:</u>	vn to 100	-110 BA.						
<u>Othe</u> <u>Com</u>	<u>r</u> ments:								
<u>Next</u> Step									
8	61140008-Cut	131.2	42110 - Planted Red Pine	High Density Log	76	Harvest	Crown Thinning	42111 - Planted Red Pine, Mixed Deciduous	Cmpt. Review Proposal
<u>Pres</u> Spec	<u>cription</u> Thin to ´ <u>s:</u>	110-110 E	BA.						
<u>Othe</u> Com	<u>r</u> Trying to ments:	get the	oak regeneration up	and going.					
<u>Next</u> Step									
10	61140010-Cut	29.3	42120 - Planted Jack Pine	High Density Pole	55	Harvest	Clearcut with Reserves	4129 - Mixed Oak	Cmpt. Review Proposal
Pres Spec		t jack pin	e allowing the oak re	egeneration to take o	ver stand	1.			
<u>Othe</u> Com	<u>r</u> ments:								
<u>Next</u> Step									
18	61140018-Cut	11.9	4130 - Aspen	High Density Pole	45	Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal
Pres Spec		rvest. Le	eave 10 BA of oak.						
<u>Othe</u> Com	<u>r</u> ments:								
<u>Next</u> Step									
20	61140020-Cut	56.5	4124 - Red with White Oak	High Density Log	130	Harvest	Crown Thinning	4124 - Red with White Oak	Cmpt. Review Proposal
<u>Pres</u> Spec		ready ha	s great regeneration	, so thin down to 70-	90 BA.				
<u>Othe</u> Com	<u>r</u> ments:								
<u>Next</u> Step									

Traverse City Mgt. Unit S t						atments Pres .imiting Fact	Compartment: 140 Year of Entry 2013	DNR DNR	
a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
25	61140025-Cut	10.4	4130 - Aspen	High Density Pole	42	Harvest	Clearcut with Reserves	4131 - Aspen, Oak	Cmpt. Review Proposal
Pres Spec	<u>cription</u> Final ha <u>s:</u>	rvest leav	ving all oak						
<u>Othe</u> <u>Com</u>	<u>r</u> ments:								
<u>Next</u> Step									
32	61140032-Cut	190.2	4124 - Red with White Oak	High Density Log	130	Harvest	Crown Thinning	4124 - Red with White Oak	Cmpt. Review Proposal
<u>Pres</u> Spec		generatic	on already exists so ta	ake out all aspen an	d red ma	ple and thin the	oak to 70-90 BA.		
<u>Othe</u> Com	<u>r</u> ments:								
<u>Next</u> <u>Step</u>									
35	61140035-Cut	6.8	4131 - Aspen, Oak	High Density Log	55	Harvest	Crown Thinning	4124 - Red with White Oak	Cmpt. Review Proposal
<u>Pres</u> Spec		e all aspei	n and red maple, leav	/e oak.					
<u>Othe</u> <u>Com</u>	<u>r</u> ments:								
<u>Next</u> Step									
36	61140036-Cut	20.6	4130 - Aspen	High Density Pole	50	Harvest	Crown Thinning	4131 - Aspen, Oak	Cmpt. Review Proposal
<u>Pres</u> Spec		generatio	on in understory alrea	dy. Leave oak and	no 2" spe	ec.			
<u>Othe</u> <u>Com</u>	<u>r</u> ments:								
<u>Next</u> <u>Step</u>									

Total Treatment Acreage Proposed: 473.0

S t		Traverse	City Mgt. Unit	Table 4		ents Prescrib ng Factor	ed with	Compartment: 140 Year of Entry 2013	DI NATURAL
a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
			#Error						
Presc Spece	<u>eription</u> s:								
<u>Other</u> Comr									
<u>Next</u> Steps	<u>::</u>								
	ng Factor and N ment Reason	0_							
Ac	Total Treatme creage Propose		0						

S t	Traverse Cit	y Mgt. Unit		5 – Fo	orested Sta	nds Compartment: 140 Year of Entry: 2013
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	42210 - Natural Red Pine	High Density Log	1.6	78	81-110	
2	4123 - Red Oak	Low Density Sapling	77.1	3		Thornapple Red RPP Sale #97-08. Oak and black cherry were left in sale. Tremendous regeneration.
3	42110 - Planted Red Pine	High Density Log	97.3	78	81-110	A lot of dead jack pine.
4	42111 - Planted Red Pine, Mixed Deciduous	High Density Log	2.6	76	200+	Retention area from Thornapple Red RPP Sale.
5	42111 - Planted Red Pine, Mixed Deciduous	High Density Log	16.0	76	200+	
6	42221 - Natural Jack Pine, Mixed Deciduous	High Density Sapling	83.0	18		
8	42110 - Planted Red Pine	High Density Log	131.2	76	141-170	Red pine planted in 1934. In 1982 everything was removed except the red pine. Sale #56-80A.
9	4130 - Aspen	High Density Pole	14.5	33		
10	42120 - Planted Jack Pine	High Density Pole	29.3	55		Heavy oak regeneration.
11	4123 - Red Oak	High Density Log	11.7	90	111-140	
12	4123 - Red Oak	Low Density Sapling	26.9	3		Thornapple Red RPP Sale #97-08. Left oak and black cherry. Tremendous oak regeneration.
14	4123 - Red Oak	High Density Sapling	6.1	7		Strip Oak Sale #022-00
15	42110 - Planted Red Pine	High Density Log	136.2	76	111-140	Red pine planted in 1934. A cut was done in 1984, Sale #028- 80, removing everything but the red pine.
16	42220 - Natural Jack Pine	High Density Pole	17.8	42		Fletcher Fire went through this area - 1968.
17	4124 - Red with White Oak	High Density Log	85.6	134	51-80	
18	4130 - Aspen	High Density Pole	11.9	45		
19	4131 - Aspen, Oak	High Density Pole	20.1	42		Fletcher Fire went through this area - 1968.
20	4124 - Red with White Oak	High Density Log	56.5	130	200+	

S t	Traverse City Mgt. Unit			5 – Fo	prested Stand	S Compartment: 140 Year of Entry: 2013
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
21	4130 - Aspen	High Density Pole	32.8	42		Fletcher Fire went through this area - 1968.
22	4116 - Mixed N. Hardwood - Aspen	High Density Sapling	69.9	7		Strip Oak Sale # 022-00
23	42220 - Natural Jack Pine	High Density Pole	124.5	42		Fletcher Fire went through this area - 1968.
24	4130 - Aspen	High Density Pole	32.5	42		Fletcher Fire went through this area - 1968.
25	4130 - Aspen	High Density Pole	10.4	42		
26	4191 - Mixed Upland Deciduous with Conifer	High Density Sapling	1.6	42		
27	4123 - Red Oak	High Density Pole	69.3	42	51-80	Fletcher Fire went through this area - 1968.
28	4130 - Aspen	High Density Pole	46.3	30		Clearcut in 1981. Sale #8-80A
29	4130 - Aspen	High Density Pole	4.4	42		
30	4130 - Aspen	High Density Pole	5.9	42		Fletcher Fire went through this area - 1968.
31	4139 - Aspen, Mixed Deciduous	Medium Density	14.4	42		Fletcher Fire went through this area - 1968.
32	4124 - Red with White Oak	High Density Log	190.2	130	171-200	
35	4131 - Aspen, Oak	High Density Log	6.8	55	111-140	
36	4130 - Aspen	High Density Pole	20.6	50		
 39	4130 - Aspen	High Density Pole	6.8	40		
41	4130 - Aspen	High Density Pole	20.3	41		
43	42220 - Natural Jack Pine	High Density Pole	2.1	40		
45	42220 - Natural Jack Pine	High Density Sapling	14.9	18		County Line Sale #002-90. All merchantable jack pine, aspen and oak were cut.

S t	Traverse C	Traverse City Mgt. Unit			prested Stands	Compartment: 140 Year of Entry: 2013	DNR DNR
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	A ATCHIGAN
47	4130 - Aspen	High Density Sapling	16.4	28			

Traverse City Mgt. Unit

### 6 – Nonforested Stands

Compartment: 140 Year of Entry: 2013



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:	MICHIGAN
7	3102 - Grass	14.6	No	Unspecified	Pipeline.	
13	3205 - Mixed Upland Shrub	3.8	No	Unspecified		
33	3102 - Grass	5.4	No	Unspecified	Well site.	
34	3102 - Grass	1.5	No	Unspecified	Well site.	
37	3205 - Mixed Upland Shrub	1.7	No	Unspecified		
38	3102 - Grass	1.0	No	Unspecified	Well site.	
40	3102 - Grass	2.1	No	Unspecified	Well site.	
42	3102 - Grass	5.9	No	Unspecified	Well site.	
44	3303 - Mixed Low Density Trees	43.9	No	Unspecified		
46	3102 - Grass	1.9	No	Unspecified	Well site.	



#### 7 – PROPOSED SPECIAL CONSERVATION AREA\* (SCA) DETAILS

\* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

Stand	SCA Type	SCA Name	Acres	Comments



#### 8 – DEDICATED CONSERVATION AREA DETAILS

\* This is a list of Dedicated Biodiversity Areas for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to Dedicated Conservation Area Map for areas that the below listed Conservation Areas are located.

Conservatio Area	on Type	Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area
HCVA	Designated Critical Habitat	Critical habitat areas are established via a consultative and coo U.S. Fish and Wildlife service for the recovery of threatened and 365, Endangered Species Protection, of the Natural Resources PA 451, and the Federal Endangered Species Act of 1973. This species plans in various stages of review. As of now only two e Plover Habitat.	d endangered species, as governed by Part and Environmental Protection Act, 1994 is an active program, with proposed
SCA	Research and Military Areas	These areas provide facilities and lands specifically dedicated f include the 5,847 acre Forest Fire Experiment Station, the 12,0 Area, the Beaver Islands Archipelago Wildlife Research Area (t High and Hog Islands, all state owned land on Beaver, South F Wildlife Research Area, the 3,000 acre Hunt Creek Fisheries R Nursery, and over 144,000 acres of Military Lands.	00 acre Houghton Lake Wildlife Research hat includes most of Garden Island, all of ox and North Fox Islands), the Cusino